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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/721,087	11/26/2003	Hironobu Amano	4632-39-1	7785
22852 7:	590 07/01/2004		EXAM	INER
	HENDERSON, FAR.	LIN, ING HOUR		
LLP			ART UNIT	PAPER NUMBER
1300 I STREE				

DATE MAILED: 07/01/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/721,087	AMANO ET AL.
Office Action Summary	Examiner	Art Unit
	Ing-Hour Lin	1725
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the o	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).
Status		
1) ☐ Responsive to communication(s) filed on 26 No. 2a) ☐ This action is FINAL . 2b) ☐ This 3) ☐ Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) ☐ Claim(s) 1-6 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-6 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o		
Application Papers		
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the prio application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicat rity documents have been receiv u (PCT Rule 17.2(a)).	ion No. <u>10/009,642</u> . ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal 6) Other:	

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DETAILED ACTION

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 2-4 and 5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In claim 2, line 4, "a communication network" is unclear because it has an antecedent basis in claim 1, line 5. Are they different?

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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3. Claims 1 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over either Oda et al or Ferdinandsen et al in view of Takayama.

Oda et al (col. 2, lines 44+) teach the claimed monitoring system for a molding apparatus, comprising sensors 11 and local controller 13 for precompacting molding sand. Also Takayama (col. 4, lines 44+) teaches the claimed monitoring system for a molding apparatus for operating molding and casting plants comprising sensors (video cameras 03, 09) and local controller 13-15 for operating molding and casting plants. Either Oda et al or Ferdinandsen et al fail to teach the use of a communication network.

However, Takayama (col. 4, lines 20+) teaches the use of a communication network including a line production management computer connected through an Ethernet for the purpose of effectively remotely controlling the molding condition without going to the machine installation site. It would have been obvious to one having ordinary skill in the art to provide either Oda et al or Ferdinandsen et al the use a communication network as taught by Takayama in order effectively remotely control the molding condition without going to the machine installation site.

4. Claims 2-4 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over either Oda et al or Ferdinandsen et al in view of Takayama and further in view of either Choi or Hillman et al.

Either Oda et al or Ferdinandsen et al in view of Takayama fails to teach the use of an alarm management.

However, Choi (col. 11, lines 45+) teaches the use of an alarm management for the purpose of effectively controlling the operating parameters in a molding system. Also, Hillman

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et al (col. 6, lines 47+) teaches the use of an alarm management (alarm field 1038 in Fig. 2) for the purpose of effectively controlling the operating parameters in a molding system. It would have been obvious to one having ordinary skill in the art to provide either Oda et al or Ferdinandsen et al in view of Takayama the use of an alarm management as taught by in order to effectively control the operating parameters in a molding system.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ing-Hour Lin whose telephone number is (571) 272-1180. The examiner can normally be reached on M-F (8:00-5:30) Second Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Dunn can be reached on (571) 272-1171. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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I.-H. Lin

6-22-04